This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (Currently amended): A screen for cleaning a fiber suspension, the screen having at least one separation unit comprising:

a housing;

a substantially parabolic rotor disposed within the housing the rotor having a running direction and extending axially from an area of minimum rotor diameter to an area of maximum rotor diameter;

a screen basket disposed between the housing and the rotor, the screen basket defining a plurality of separation units, the rotor extending axially through all of the separation units, the rotor including a rotor segment disposed within each of the separation units, each rotor segment extending axially from an area of minimum rotor diameter to an area of maximum rotor diameter and defining a substantially parabolic shape adapted to the flow conditions in the associated separation unit;

an accept chamber disposed between the screen basket and the housing;

a reject outlet disposed adjacent the area of maximum rotor diameter <u>of at least one</u> <u>of the rotor segments</u>; and

at least one device for interrupting axial flow disposed adjacent the area of maximum rotor diameter of one of the rotor segments.

- 2 (Original): The screen of claim 1 wherein the at least one device for interrupting axial flow is mounted to the housing or to the screen basket.
- 3 (Original): The screen of claim 1 wherein the at least one device for interrupting axial flow is mounted to the rotor.
- 4 (Original): The screen of claim 1 wherein the at least one device for interrupting axial flow comprises at least one axial flow interruption ring.

- 5 (Original): The screen of claim 4 wherein the at least one flow interruption ring is adjustable.
- 6 (Original): The screen of claim 4 wherein the at least one flow interruption ring includes an outer diameter having a toothed profile.
- 7 (Currently Amended): The screen of claim 1 wherein the at least one separation unit further comprises at least one inlet for dilution water, the at least one inlet being located adjacent the reject outlet.
- 8 (Original): The screen of claim 7 wherein the at least one inlet is mounted on the housing or on the screen basket.
- 9 (Original): The screen of claim 7 wherein the at least one inlet is mounted on the rotor and fed through a pipe mounted inside the rotor.
- 10 (Original): The screen of claim 7 wherein the at least one inlet is directed such that the dilution water is fed in the running direction of the rotor.
- 11 (Original): The screen of claim 7 wherein the at least one inlet is directed such that the dilution water is fed in an opposite direction to the running direction of the rotor.
- 12 (Original): The screen of claim 7 wherein the at least one inlet is coupled to the at least one device for interrupting axial flow.
- 13 (Currently Amended): The screen of claim 1 wherein the at least one separation unit further comprises a deflaking unit.
- 14 (Original): The screen of claim 13 wherein the deflaking unit includes at least one ring mounted on the housing, on the screen basket, or on the rotor.

15 (Canceled)

- 16 (Currently amended): The screen of claim 45 1 wherein each separation unit has a height and the height of a one of the separation units is at least twice the sum of the heights of all of the separation units axially below the one separation unit.
- 17 (Currently amended): The screen of claim 15 1 wherein each separation unit includes at least one device for interrupting axial flow.
- 18 (Currently amended): The screen of claim 45 1 wherein each separation unit further comprises at least one inlet for dilution water, the at least one inlet being located adjacent the reject outlet.
- 19 (Currently amended): The screen of claim 15 1 further comprising a deflaking unit.
- 20 (Original): The screen of claim 5 wherein the at least one flow interruption ring is an iris diaphragm.
- 21 (Original): The screen of claim 19 wherein the screen has first, second and third separation units and the deflaking unit is disposed intermediate the second and third separation units.